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NCBC DAVISVILLE
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83RD RESTORATION ADVISORY BOARD (RAB) MEETING MINUTES 27 MARCH 2014
NCBC DAVISVILLE RI
3/27/2014
TETRA TECH

**83rd RESTORATION ADVISORY BOARD MEETING
FORMER NAVAL CONSTRUCTION BATTALION CENTER DAVISVILLE
NORTH KINGSTOWN, RHODE ISLAND
NOTES FROM THE 27 MARCH 2014 MEETING**

The 83rd Restoration Advisory Board (RAB) meeting was held at the Quonset Development Corporation (QDC) Conference Center at 95 Cripe Street in North Kingstown, Rhode Island. The meeting agenda for the 83rd RAB is included as [Attachment A](#). The attendance list for the 83rd RAB is included as [Attachment B](#). D. Barney, the Navy's BRAC Environmental Coordinator, convened the meeting at approximately 7:00 PM on 27 March 2013.

NEXT RESTORATION ADVISORY BOARD MEETING

The next RAB meeting will be held on 23 October 2014 at 7:00 PM at the QDC Conference Center. The Navy will send out postcards prior to the next RAB meeting reminding the public of the date, time, and location of the next meeting.

LONG-TERM MONITORING UPDATES

R. Shoemaker (Resolutions Consultants) gave a brief update regarding the long-term monitoring program (LTMP) for the NCBC Davisville sites:

- Resolutions completed the field work for monitoring event (ME) 42 for Allen Harbor Landfill (Site 09) and ME 17 for Calf Pasture Point (Site 07) in the fall of 2013.
- The next MEs for Sites 07/09 are scheduled for the fall of 2014.
- D. Barney reported that the BRAC Cleanup Team (Navy, USEPA Region I, and RIDEM) are currently focusing on streamlining the LTMP for the NCBC Davisville sites.

NAVY PRESENTATION: BURIED DRUM INVESTIGATION AND REMOVAL AT THE CONSTRUCTION EQUIPMENT DEPARTMENT (CED) AREA

D. Pinkham (Tetra Tech EC, Inc.) provided an update regarding the removal action performed at the CED Area ([Attachment C](#)). The removal action was necessary because, on April 23, 2013, the Quonset Development Corporation (QDC) discovered a 55 gallon drum of what appeared to be oil while performing soil excavation/construction activities in the CED Area. In July 2013, Tetra Tech NUS performed a geophysical survey to determine if any additional drums were present in the area. The

- Subsurface soil samples were collected along the drain line/catch basin path from 4 locations based on visual inspection of the catch basins during the Maintenance Cleaning and the video inspection during the 2010 drain line investigation.

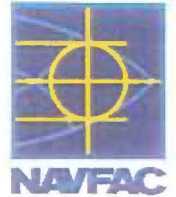
The investigation also includes the installation and sampling of one upgradient monitoring well pair, two downgradient monitoring well pairs, and surface water sampling. The RI field investigation will likely conclude in April 2014.

SITE 16 UPDATE

The Navy continues to move forward with the proposed plan (PP)/record of decision (ROD) process for Site 16. A public hearing for the Site 16 PP was held on October 24, 2013. The PP provided the Navy's preferred remedial alternative for groundwater and soil contamination at Site 16 which will be formalized in the ROD. No formal comments have been received on the PP for Site 16. The draft final version of the ROD for NCBC Davisville 16 is currently being reviewed by EPA/RIDEM. It is anticipated that details regarding the final ROD for Site 16 will be presented at the next RAB meeting.

Tonight's meeting concluded at approximately 8:00 PM.

ATTACHMENT A
AGENDA



AGENDA

FORMER NCBC DAVISVILLE

83rd Restoration Advisory Board (RAB) Meeting

Date: March 27, 2014

Time: 7:00 P.M.

Location: 95 Cripe Street, North Kingstown, Rhode Island

RAB Meetings – Next Meeting Date

Long-Term Monitoring Program Updates

- Site 09: Allen Harbor Landfill
- Site 07: Calf Pasture Point

Navy Presentation: CED Drum Removal Action Results

Navy Presentation: CED Outfall Field Investigation

Site 16 Record of Decision (ROD) Update

ATTACHMENT B
ATTENDANCE LIST

**FORMER NCBC DAVISVILLE
RAB MEETING ATTENDANCE LIST
27 MARCH 2014 – 7:00 PM
95 CRIPE STREET
NORTH KINGSTOWN, RHODE ISLAND**

[illegible]

ATTACHMENT C
BURIED DRUM INVESTIGATION AND REMOVAL AT
THE CONSTRUCTION EQUIPMENT DEPARTMENT
AREA



TETRA TECH EC, INC

Buried Drum Investigation and Removal at the Construction Equipment Department (CED) Area

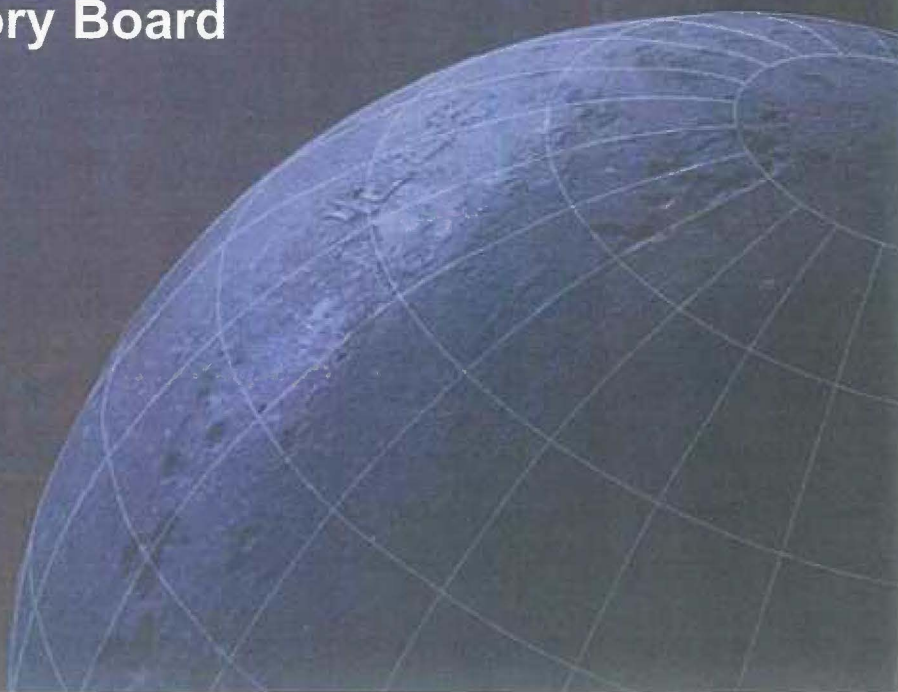
83rd Restoration Advisory Board
(RAB) Meeting

March 27, 2014

Presented by:

Derek Pinkham

Tetra Tech EC, Inc.



DRUM DISCOVERY

- On April 23, 2013, during construction work in the CED Area, a 55 gallon drum of what appeared to be oil was identified.
- A small quantity appeared to have leaked from the drum.



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DRUM DISCOVERY

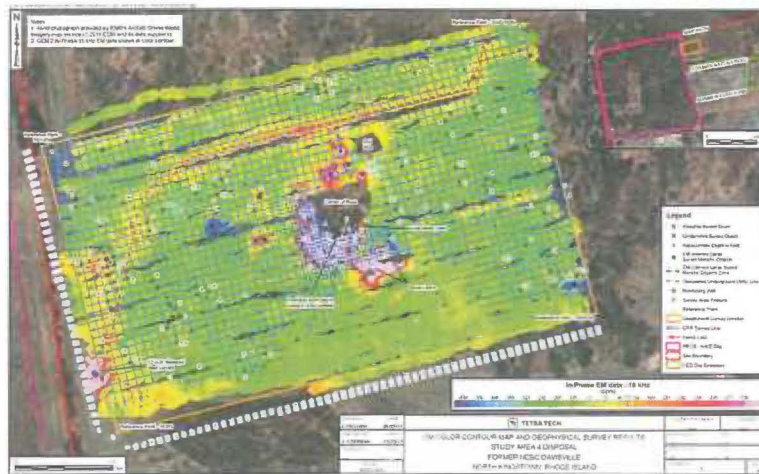
- Impacted soil was excavated and placed on plastic sheeting and covered.
- The liquid from the uncovered drum was transferred to a new drum and stored at an indoor facility. The original drum was stored with the excavated soil under plastic sheeting.



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PRELIMINARY INVESTIGATION

- In July 2013, Tetra Tech NUS performed a geophysical survey in order to determine if any additional drums were buried at the site.
- The results of the investigation indicated that 12 drums were present near the location of the existing drum.



PROJECT PLANNING

- A Contract was awarded to Tetra Tech EC to prepare a Work Plan and associated documents.
- The Work Plan covered several work elements:
 - Drum excavation and removal
 - Waste disposal
 - Groundwater monitoring well installations
 - Geophysical Survey (after excavation)
 - Coastal Zone Management Consistency Determination
- The scope of the work was discussed during a BRAC Cleanup Team meeting and well installation activities were changed to potentially add five additional wells (one additional location and a possible additional well at each location).



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PUBLIC INVOLVEMENT

- As the drum removal was considered a Time Critical Removal Action, public involvement did not take place prior to drum removal activities.
- On December 20, 2013, an Action Memorandum documenting the decision to perform the removal action was made available.
- A Public Notice appeared in the Standard Times on January 9, 2014 informing the public that this document was available for review.
- No comments on the Action Memo were received from the public.



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FIELD WORK

- TtEC mobilized to the Site on October 21, 2013 to begin preparation of the site.
- Clean Venture, Inc. was subcontracted to perform the excavation and removal activities.
- Due to the unknown nature of the materials in the drums, work was performed with supplied air and protective equipment



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EXCAVATION ACTIVITIES

- A total of nine drums were uncovered during removal action.
- The remaining drums appeared to have been crushed prior to being buried.
- Six test pits were excavated in order to collect additional soil samples.
- A large pipe was encountered in an area that was originally presumed to contain drums. Three soil samples were collected under the pipe.



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SOIL SAMPLING SUMMARY

- A total of 18 soil samples were collected.
- One soil sample was collected under each of the removed drums.
- Three soil samples were collected under the pipe that was present at the Site.
- An additional six soil samples were collected at various locations across the Site.
- No VOCs, SVOCs, Pesticides, or PCBs were detected at concentrations above screening criteria.
- Only certain metals (Al, As, Co, Fe, and Mn) were detected at concentrations above screening criteria.



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WELL INSTALLATION AND SOIL SCREENING

- TtEC mobilized to the Site on February 10 to install up to nine monitoring wells. The exact number of wells to be installed was determined based upon lithology.
- Color Tec[®] field screening was used on the soil collected from the soil borings prior to the well installations to determine if CVOCs were present.
- Due to a lack of a clay confining layer in the borings (and subsequent lack of a second sand unit), only two wells were installed at each location.
- Monitoring wells MW03-15S, MW03-15I, MW03-16S, MW03-16I, MW03-17S and MW03-17I were installed between February 10th and 12th.



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DISPOSITION OF WASTES

- On drum containing liquid from the initial drum discovery was disposed at a licensed facility on October 10, 2013.
- One drum of soil and one over-packed drum containing liquid from initial discovery was disposed at a licensed facility on February 19th.
- Metal (empty drums and large pipe) was removed from the Site for off-site recycling on February 20th.



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GEOPHYSICAL SURVEY

- A Geophysical Survey was performed from March 10 to 12, 2014.
- It was performed to determine if any additional drums were present below removed drums.
- No additional anomalies (i.e., suspected drums) were discovered during this investigation.



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WHAT'S NEXT?

- Groundwater sampling and evaluation (including with CED area wide groundwater efforts).
- Consult with BCT to determine if this is considered a new site or study area and how to memorialize any future actions.
- Evaluation and risk analysis of soil data (TtNUS will prepare human health risk assessment).
- Determine need for additional action, if any.



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ATTACHMENT D1
QDC OUTFALL 001
REMEDIAL INVESTIGATION

QDC Outfall 001 Remedial Investigation

March 10, 2014 – March 25, 2014





Drawn: SB 1/18/2013
 Approved: BS 1/18/2013
 Project #: 60273164

Map Location



- QDC Outfall 001 wetland
- Drainage Ditch
- ▲ QDC Outfall 001*
- 2008 excavation area*
- CED area drainline*

- Former plugged culvert
- Wetland mats

*Approximate

**Proposed locations only, actual locations may change based on field conditions

Proposed Sample Locations**

- Sediment boring
- Grab Groundwater Sample



0 25 50 100
 Scale in Feet

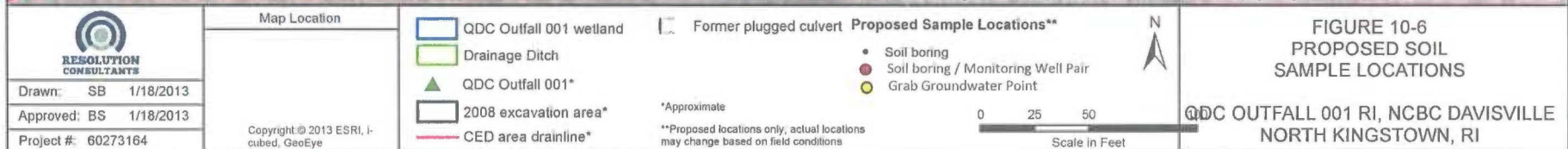
FIGURE 10-5
 PROPOSED SEDIMENT
 SAMPLE LOCATIONS

QDC OUTFALL 001 RI, NCBC DAVISVILLE
 NORTH KINGSTOWN, RI





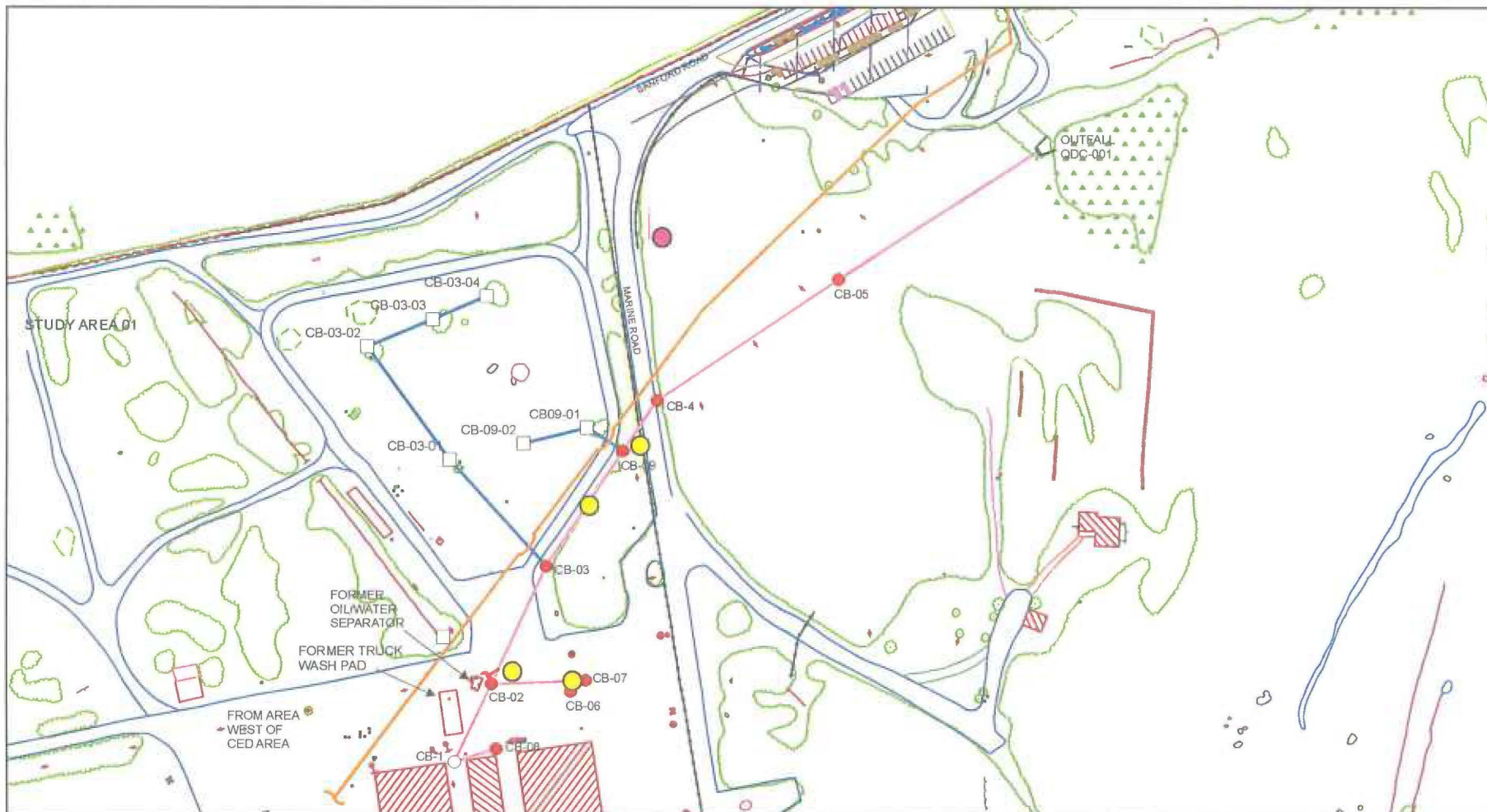
Source: Esri, DigitalGlobe, GeoEye, AeroGRID, IGN, SCS, Swisstopo, and the GIS User Community



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RESOLUTION CONSULTANTS

Drawn: SB 1/18/2013

Approved: BS 1/18/2013

Project #: 60273164



- QDC-001 catch basin and storm sewer route
- Location of plugged discharge line from former oil/water separator to CB-02
- Catch basin and storm sewer route per historical drawings, but not field verified
- Catch basin and storm sewer route per Figure 2-3 of 1994 Haliburton Report and QDC storm system drawing

- Catch basin on QDC-001 storm sewer route
- Soil sample location
- Upgradient Well Pair

0 25 50 100 150 200
Feet

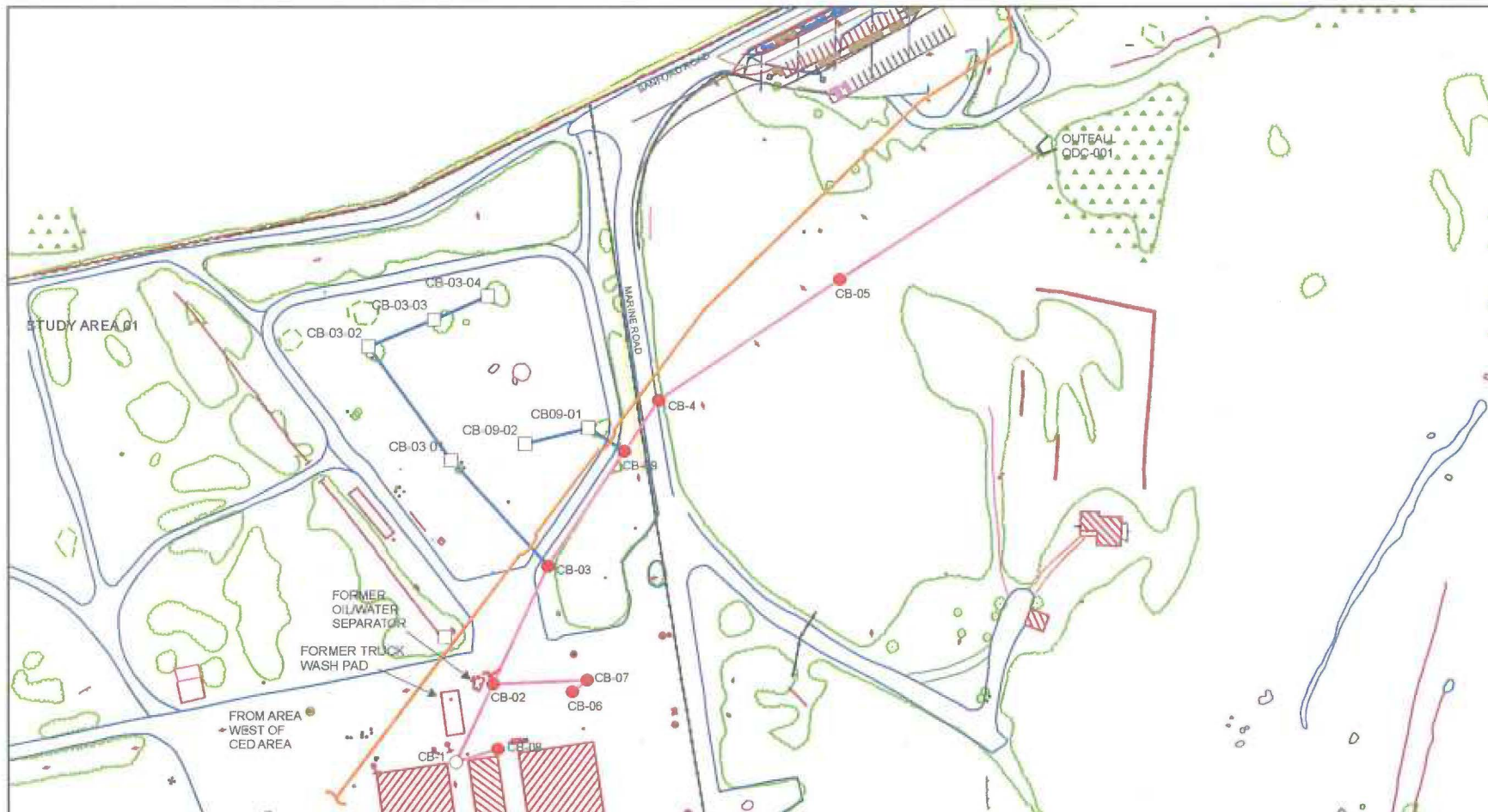


FIGURE 1-2
DETAILS OF FORMER BUILDING 224
DRAIN LINE AND QDC OUTFALL LOCATION
QDC OUTFALL 001 RI, NCBC DAVISVILLE
NORTH KINGSTOWN, RI

Maintenance Cleaning of the QDC Outfall 001 Drain Line and Associated Catch Basins

December 2013

ATTACHMENT D2
MAINTENANCE CLEANING OF
THE QDC OUTFALL 001 DRAIN LINE
AND
ASSOCIATED CATCH BASINS



Drawn: SB 1/18/2013
 Approved: BS 1/18/2013
 Project #: 60273164



- QDC-001 catch basin and storm sewer route
- Location of plugged discharge line from former oil/water separator to CB-02
- Catch basin and storm sewer route per historical drawings, but not field verified
- Catch basin and storm sewer route per Figure 2-3 of 1994 Halliburton Report and QDC storm system drawing

- Catch basin on QDC-001 storm sewer route
- Catch basin not found
- Catch basin from connecting drain line

0 25 50 100 150 200
 Feet



FIGURE 1-2
 DETAILS OF FORMER BUILDING 224
 DRAIN LINE AND QDC OUTFALL LOCATION
 QDC OUTFALL 001 RI, NCBC DAVISVILLE
 NORTH KINGSTOWN, RI

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